

# PATENT ABSTRACTS OF JAPAN

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(71)Applicant : KAO CORP

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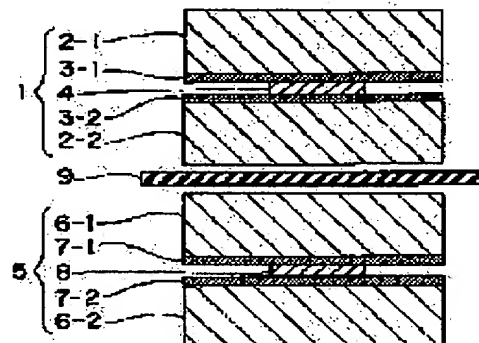
(72)Inventor : KUSAKABE TETSUYA

## (54) NON-AQUEOUS SECONDARY BATTERY

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a secondary battery with a lowered inner resistance and a high capacity by forming a conductive thin film part of a conductive metal either on one face or both faces of a positive pole film and a negative pole film, producing a positive pole by layering two or more such positive pole films while setting conductive thin film parts face to face, and producing a negative pole by layering two or more such negative pole films while setting conductive film parts face to face.

**SOLUTION:** Conductive thin film parts 3-1, 3-2 are respectively formed on one face, an upper positive pole film 2-1 and a lower positive pole film 2-2 are layered while inserting a positive pole collector 4 between them to provide a positive pole 1. Conductive thin film parts 7-1, 7-2 are respectively formed on one face, an upper negative pole film 6-1 and a lower negative pole film 6-2 are layered while inserting a negative pole collector 8 between them to provide a negative pole 5. After that, the positive pole 1 and a negative pole 5 are layered while sandwiching a separator 9 to give a unit of this non-aqueous secondary battery. Further, a sheet of a separator is layered and the resultant body is spirally rolled and housed in a cylindrical battery case. Aluminum, titanium, or stainless is preferable for the conductive thin film parts of the positive pole film and one of copper group metals and platinum group metals is preferable for the negative pole film.



## LEGAL STATUS

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